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'ONNX' MFA Bypass Targets Microsoft 365 Accounts

The service, likely a rebrand of a previous operation called "Caffeine," mainly targets financial institutions in the Americas and EMEA and uses malicious QR codes and other advanced evasion tactics.



Elizabeth Montalbano, Contributing Writer June 19, 2024

4 Min Read



SOURCE: RONSTIK VIA ALAMY STOCK PHOTO

A highly organized <u>phishing-as-a-service operation (PhaaS)</u> is targeting Microsoft 365 accounts across financial firms with business email compromise (BEC) attacks that leverage

a two-factor authentication (2FA) bypass, QR codes, and other advanced evasion tactics to maximize success, researchers have found.

Security analysts from EclecticIQ in February discovered a broad phishing campaign targeting financial institutions, in which threat actors used embedded QR codes in PDF attachments to redirect victims to phishing URLs, according to a blog post published June 18. Specific organizations targeted included banks, private funding firms, and credit union service providers across the Americas and Europe, Middle East and Africa (EMEA) regions.

EclecticIQ eventually tracked the origin of the campaign to a <u>PhaaS platform</u> called ONNX Store, "which operates through a user-friendly interface accessible via Telegram bots," Eclectic IQ threat intelligence analyst Arda Büyükkaya wrote in the post.

A key part of the ONNX service is a <u>2FA bypass mechanism</u> that intercepts 2FA requests from victims using encrypted JavaScript code, to decrease the likelihood of detection and bolster the success rate of attacks, Büyükkaya noted. Moreover, the phishing pages delivered in the attacks use <u>typosquatting</u> to closely resemble Microsoft 365 login interfaces, making them more likely to trick targets into entering their authentication details.

Snapshot of an ONNX Attack

A typical email used in the attack shows a threat actor purporting to send the employee a human resources-related PDF document, such as an employee handbook or a salary remittance slip. The document impersonates Adobe or Microsoft 365 to try to trick a recipient into opening the attachment via a QR code that, once scanned, directs victims to a phishing landing page.

The use of QR codes is an increasingly common tactic for evading endpoint detection, Büyükkaya noted: "Since QR codes are typically scanned by mobile phones, many organizations lack detection or prevention capabilities on employees' mobile devices, making it challenging to monitor these threats."

The attacker-controlled landing page is designed to steal login credentials and <u>2FA</u> <u>authentication</u> codes using the adversary-in-the-middle (AitM) method, analysts found.

"When victims enter their credentials, the phishing server collects the stolen information via WebSockets protocol, which allows real-time, two-way communication between the user's browser and the server," Büyükkaya wrote. In this way, attackers can quickly capture and transmit stolen data without the need for frequent HTTP requests, making the phishing operation more efficient and harder to detect, he noted.

Another PhaaS operator, <u>Tycoon</u>, also has used a similar AitM technique and a multifactor authentication (MFA) bypass involving a Cloudflare CAPTCHA, demonstrating how malicious actors are learning from each other and adapting strategies accordingly, Büyükkaya said.

ONNX also shares overlap in both Telegram infrastructure and advertising methods with a phishing kit called Caffeine (first discovered by researchers at Mandiant in 2022), the researchers found — so it could be a rebranding of that operation, according to ElecticIQ.

Another scenario is that the Arabic-speaking threat actor MRxC0DER, who is believed to have developed and maintained Caffeine, is providing client support to the ONNX Store, while the broader operation "is likely managed independently by a new entity without central management," Büyükkaya wrote.

JavaScript Encryption Adds Level of Evasion

Another anti-detection measure in the ONNX <u>phishing</u> kit is the use of encrypted JavaScript code that decrypts itself during page load, and includes a basic anti-JavaScript debugging feature. "This adds a layer of protection against anti-phishing scanners and complicates analysis," according to the analysis.

EclecticIQ researchers observed a functionality in the decrypted JavaScript code that's specifically designed to steal <u>2FA</u> tokens entered by the victims and relay them to the attacker, who then uses the stolen credentials and tokens in real time to log in to Microsoft 365.

"This real-time relay of credentials allows the attacker to gain unauthorized access to the victim's account before the 2FA token expires, circumventing multifactor authentication," Büyükkaya wrote.

Mitigating and Preventing ONNX Phishing Attacks

ElecticIQ provided countermeasures for combatting specific tactics used by ONNX Store. To mitigate threats from embedded QR codes in PDF documents, organizations should block PDF or HTML attachments from unverified external sources in email server settings. They also can educate employees on the risks associated with scanning QR codes from unknown sources.

To combat the <u>typosquatted</u> domains used by the threat actor to impersonate Microsoft, organizations can implement <u>domain name system security extensions (DNSSEC)</u>, which protects domains from multiple cyber threats, including typosquatting.

There are also measures that defenders can take to combat the <u>theft of 2FA tokens</u>, such as implementing FIDO2 hardware security keys for 2FA; setting a short expiration time for login tokens that limits a cyberattacker's window of opportunity to use them; and using security monitoring tools to detect and alert for any unusual behavior, such as multiple failed login attempts or logins from unusual locations.

About the Author



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Elizabeth Montalbano is a freelance writer, journalist, and therapeutic writing mentor with more than 25 years of professional experience. Her areas of expertise include technology, business, and culture. Elizabeth previously lived and worked as a full-time journalist in Phoenix, San Francisco, and New...

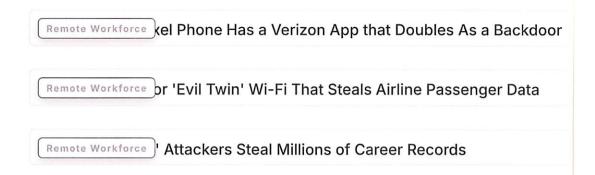
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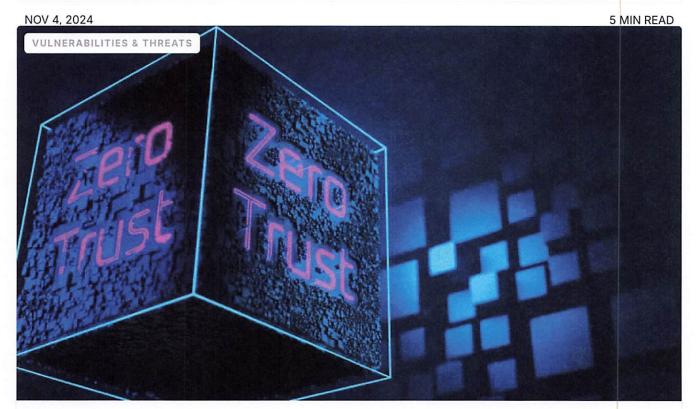
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By June 18, 2024 04:28 PM 0
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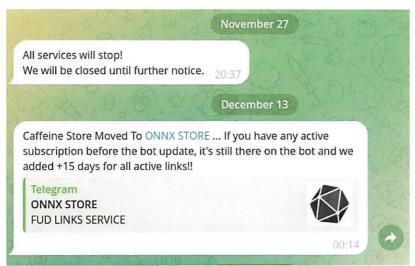
A new phishing-as-a-service (PhaaS) platform called ONNX Store is targeting Microsoft 365 accounts for employees at financial firms using QR codes in PDF attachments.

The platform can target both Microsoft 365 and Office 365 email accounts and operates via Telegram bots and features two-factor authentication (2FA) bypass mechanisms.

Researchers at EclecticIQ (https://blog.eclecticiq.com/onnx-store-targeting-financial-institution) who discovered the activity believe that ONNX is a rebranded version of the Caffeine phishing kit managed by

the Arabic-speaking threat actor MRxCoDER.

Mandiant discovered caffeine in October 2022, when the platform targeted Russian and Chinese platforms instead of Western services.



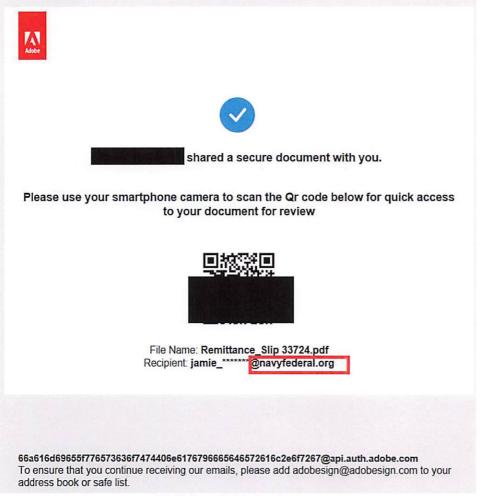
Announcement of rebranding

Source: EclecticIQ

ONNX attacks

EclecticIQ observed ONNX attacks in February 2024, distributing phishing emails with PDF attachments containing malicious QR codes that targeted employees at banks, credit union service providers, and private funding firms.

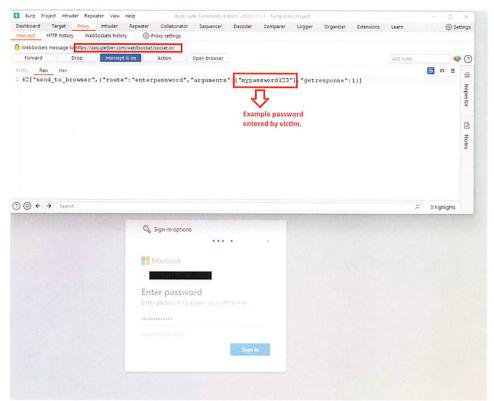
The emails impersonate human resources (HR) departments, using salary updates as lures to open the PDFs, which are themed after Adobe or Microsoft.



Malicious PDF attachment

Source: EclecticIQ

Scanning the QR code on a mobile device bypasses phishing protections on the targeted organizations, taking victims to phishing pages that mimic the legitimate Microsoft 365 login interface.



The Microsoft 365 phishing page

Source: EclecticIQ

The victim is prompted to enter their login credentials and 2FA token on the fake login page, and the phishing site captures these details in real-time.

The stolen credentials and 2FA token are immediately relayed to the attackers via WebSockets, allowing them to hijack the target's account before the authentication and MFA-validated token expires.

```
const verifyotpbtn = document.getElementById('btn_verifyotp');
verifyotpbtn.addEventListener('click', () => {
    const otpInput = document.getElementById('inp_otpcode');
    loadinganimation(@08);
    sendAndReceive("enterotp", [otpInput.value], @x1).then(response => {
        if (response) {
            document.getElementById('section_otp").classList.toggle("d-none");
            document.getElementById('section_otp").classList.toggle("d-none");
            document.getElementById('section_otp").classList.remove("d-none");
            view = 'final';
        }
        if (response.message == "error" 55 response.description != "The wrong code was entered. Send yourself a new
code and try again.") {
            bottomsectionlinks("otp", response.backbutton);
            changebackbutton("otp", response.backbutton);
            checkerrordesc("otp", 0x1, response.description == "The wrong code was entered. Send yourself a new
code and try again.") {
            bottomsectionlinks("2fa", response.backbutton);
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```

The 2FA bypassing mechanism

Source: EclecticIQ

From there, the attackers can access the compromised email account to exfiltrate sensitive information such as emails and documents or sell the credentials on the dark web for malware and ransomware attacks.

Robust phishing platform

From the perspective of the cybercriminals using the service, ONNX is a compelling and cost-effective platform.

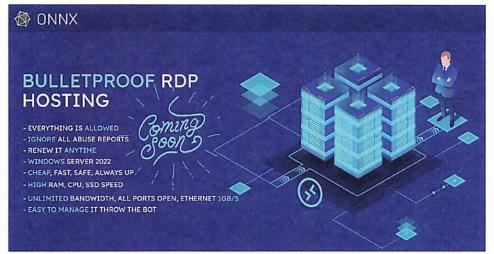
The center of operations is on Telegram, where bots enable clients to manage their phishing operations through an intuitive interface. Moreover, there are dedicated support channels to assist users with any issues.

The Microsoft Office 365 phishing templates are customizable, and webmail services are available for sending phishing emails to targets.

The ONNX phishing kit also uses encrypted JavaScript code that decrypts itself during page load, adding a layer of obfuscation to evade detection by anti-phishing tools and scanners.

Additionally, ONNX uses Cloudflare services to prevent its domains from being taken down, including an anti-bot CAPTCHA and IP proxying.

There is also a bulletproof hosting service to ensure that the operations aren't interrupted by reports and takedowns, as well as remote desktop protocol (RDP) services for managing the campaigns securely.

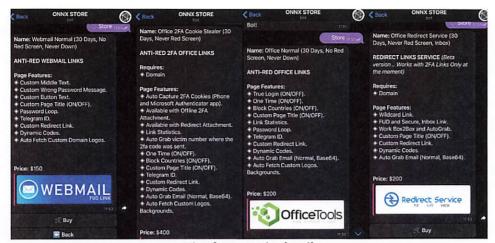


Bulletproof hosting offer

Source: EclecticIQ

ONNX offers four subscription tiers summarized as follows:

- Webmail Normal (\$150/month): Offers customizable text elements, a password loop, Telegram ID integration, custom redirect links, and auto-fetch custom domain logos.
- Office Normal (\$200/month): Includes true login, one-time passwords, country blocking, custom page titles, password loops, Telegram integration, and custom logos.
- Office Redirect (\$200/month): Provides wildcard links, fully undetectable inbox links, custom page titles, dynamic codes, and auto-grab email functionality for 2FA redirects.
- Office 2FA Cookie Stealer (\$400/month): Captures 2FA cookies, supports offline 2FA, and includes custom page titles, Telegram integration, dynamic codes, and link statistics.



Tier features in detail

Source: EclecticIQ

All in all, ONNX Store is a dangerous threat for Microsoft 365 account holders, especially for companies engaged in the broader financial services sectors.

To protect against its sophisticated phishing attacks, admins are recommended to block PDF and HTML attachments from unverified sources, block access to HTTPS websites with untrusted or expired certificates, and set up FIDO2 hardware security keys for high-risk, privileged accounts.

EclecticIQ has also shared YARA rules in its report to help detect malicious PDF files that contain QR codes leading to phishing URLs.

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Bill Toulas is a tech writer and infosec news reporter with over a decade of experience working on various online publications, covering open-source, Linux, malware, data breach incidents, and hacks.

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